

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A multi-grip blind rivet comprising
 - a. a tubular shell having a surface with an exterior radius;
 - b. a mandrel extending through the shell;
 - c. the shell has an outwardly extending flange at one end forming a rivet head, and having a first set of radial indentations arranged around the periphery of the shell at a first distance from the rivet head, and a second set of radial indentations being arranged around the periphery of the shell at a second distance from the rivet head, the radial indentations crimped into the rivet shell such that when viewed in radial cross section the radial indentations are arc-shaped; the end of the shell that is remote from the rivet head being ~~[[the]]~~ a blind end of the rivet shell;
 - d. the mandrel having a head at one end which abuts against the blind end of the shell, and a stem extending from the head, the stem having a point of weakness part way along its length, and disposed within the shell; and
 - e. the hardness of the rivet shell in the region of each of the indentations is between 20% to 30% higher than the hardness of the rivet shell at a point mid way between adjacent longitudinally spaced indentations.

2. (Previously Presented) The multi-grip rivet claimed in Claim 1 wherein:
a. a third set of indentations arranged around the periphery of the shell at a third distance from the rivet head.

3. (Currently Amended) The multi-grip rivet claimed in Claim 2 further comprising: an intermediate surface having the exterior radius located radially in between the radial indentations.

4. (Previously Presented) The multi-grip rivet claimed in Claim 1 wherein:
a. the depth of at least one of the sets of the indentations, prior to a rivet setting process, is at least 0.20mm.

5. (Previously Presented) The multi-grip blind rivet claimed in Claim 4 wherein:
a. the depth of at least one of the sets of the indentations, prior to the rivet setting process, is at least 20 to 25% of the thickness of the shell.

6. (Previously Presented) The multi-grip blind rivet claimed in Claim 5 wherein:
a. each set of radial indentations having between two to eight indentations.

7. (Previously Presented) The multi-grip blind rivet claimed in Claim 6 wherein:

a. the longitudinal spacing between adjacent sets of indentations is at least 2mm.

8. (Previously Presented) The multi-grip blind rivet claimed in Claim 7 wherein:

a. the radial indentations are circular with outwardly sloping edges.

9. (Previously Presented) The multi-grip blind rivet claimed in Claim 8 wherein:

a. the first and second set of indentations in the shell are respectively nearer to, and further from, the shell flange, than the point of weakness of the mandrel is to the shell flange.

10. Cancelled

11. Cancelled

12. Cancelled

13. (Previously Presented) The multi-grip blind rivet claimed in Claim 9 wherein:

- a. an aperture formed in each of the workpiece components; and
- b. the apertures aligned with each other.

14. (Previously Presented) The multi-grip blind rivet claimed in Claim 13 wherein:

- a. one of the workpiece components is formed of a soft material of predetermined density.

15. (Previously Presented) The multi-grip blind rivet claimed in Claim 13 wherein:

- a. at least one of the workpiece components is formed of a friable material of predetermined density.

16. (Currently Amended) A multi-grip blind rivet comprising

a. a tubular shell having a surface having an exterior radius, and having a shell thickness;

b. a mandrel extending through the shell;

c. the shell has an outwardly extending flange at one end forming a rivet head, and having a first set of radial indentations arranged around the periphery of the shell at a first distance from the rivet head, and a second set of radial indentations being arranged around the periphery of the shell at a second distance from the rivet head, the radial indentations crimped into the rivet shell such that when viewed in radial cross section the radial indentations are arc-shaped; the end of the shell that is remote from the rivet head being ~~[[the]]~~ a blind end of the rivet shell; and

d. the mandrel having a head at one end which abuts against the blind end of the shell, and a stem extending from the head, the stem having a point of weakness part way along its length, and disposed within the shell; and

e. an intermediate surface located radially in between the radial indentations when viewed in radial cross section the intermediate surface is defined by a first sloping edge, a second sloping edge and a mid-portion between the first and second sloping edges, said mid-portion having a curvature equal to the exterior radius, wherein the radial indentations have a thickness between about 15 to about 30% of the shell thickness.